

G4-M6-Lesson 7

1. Write a decimal number sentence to identify the total value of the place value disks.

$(10)(10)$ (1) $(0.1)(0.1)(0.1)(0.1)(0.1)$ $(0.01)(0.01)(0.01)(0.01)$
 2 tens 1 one 5 tenths 4 hundredths
 $\underline{20} + \underline{1} + \underline{0.5} + \underline{0.04} = \underline{21.54}$

I write the expanded form.

2. Use the place value chart to answer the following questions. Express the value of the digit in unit form.

hundreds	tens	ones	.	tenths	hundredths
3	5	1	.	8	2

- a. The digit 3 is in the hundreds place. It has a value of 3 hundreds.

I write the value of 300 in unit form.

- b. The digit 5 is in the tens place. It has a value of 5 tens.

3. Write the decimal as an equivalent fraction. Then, write the number in expanded form, using both decimal and fraction notation.

Decimal and Fraction Form	Expanded Form	
	Fraction Notation	Decimal Notation
$27.03 = 27\frac{3}{100}$	$(2 \times 10) + (7 \times 1) + \left(3 \times \frac{1}{100}\right)$ $20 + 7 + \frac{3}{100}$	$(2 \times 10) + (7 \times 1) + (3 \times 0.01)$ $20 + 7 + 0.03$
$400.80 = 400\frac{80}{100}$	$(4 \times 100) + \left(8 \times \frac{1}{10}\right)$ $400 + \frac{8}{10}$	$(4 \times 100) + (8 \times 0.1)$ $400 + 0.8$

This number has many zeros! There are values in the hundreds and tenths place that I show as addends in the expressions.

Expanded form can be written two ways. Using parentheses, I show how the value of each digit is a multiple of a base-ten unit (e.g., 4×100). Or, I show the value of each digit (e.g., 400).